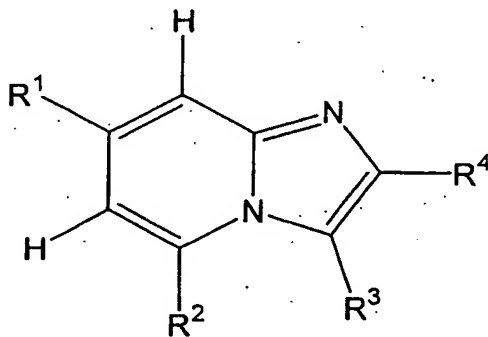


**Amendments to the Claims:**

The following listing of claims replaces all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A method of ~~inhibiting nitric oxide synthase~~ treating a condition selected from the group consisting of migraine, Alzheimer's disease and diabetes in a mammal in need thereof, said method comprising administering to said mammal an effective ~~nitric oxide synthase inhibiting~~ amount of at least one imidazo[1,2-a]-pyridine compound corresponding to formula I



wherein,

R<sup>1</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, an unsubstituted or at least monosubstituted aryl or heteroaryl radical, H, F, Cl, Br, I, CN, NO<sub>2</sub>, NH<sub>2</sub>, C(=O)R<sup>5</sup>, CO<sub>2</sub>H, CO<sub>2</sub>R<sup>6</sup>, OH or OR<sup>7</sup>;

- R<sup>2</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, an unsubstituted or at least monosubstituted aryl or heteroaryl radical, H, F, Cl, Br, I, CN, NO<sub>2</sub>, NH<sub>2</sub>, C(=O)R<sup>5</sup>, CO<sub>2</sub>H, CO<sub>2</sub>R<sup>6</sup> or OH;
- R<sup>3</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, an unsubstituted or at least monosubstituted aryl or heteroaryl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group, CH<sub>2</sub>SR<sup>8</sup>, CH<sub>2</sub>OR<sup>8</sup> or H;
- R<sup>4</sup> represents H, an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical, or an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group;
- R<sup>5</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, a C<sub>3-7</sub>-heterocyclyl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical

or an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group;

R<sup>6</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, an unsubstituted or at least monosubstituted aryl or heteroaryl radical or an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group;

R<sup>7</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, a C<sub>3-8</sub>-cycloalkyl radical, a C<sub>3-8</sub>-cycloalkyl radical which is bonded via a C<sub>1-8</sub>-alkylene group, an unsubstituted or at least monosubstituted aryl or heteroaryl radical or an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group; and

R<sup>8</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkenyl radical, an unsubstituted or at least monosubstituted C<sub>2-8</sub>-alkinyl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group or a C<sub>3-8</sub>-cycloalkyl radical,

or a salt thereof, wherein said salt is formed with a physiologically acceptable acid.

2. (Original) A method according to claim 1, wherein said compound is present in the form of a free base.

3. (Original) A method according to claim 1, wherein R<sup>1</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, F, Cl, Br, CN, NO<sub>2</sub>, NH<sub>2</sub>, C(=O)R<sup>5</sup>, CO<sub>2</sub>H, CO<sub>2</sub>R<sup>6</sup>, OH or OR<sup>7</sup>.

4. (Original) A method according to claim 1, wherein R<sup>1</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical.

5. (Original) A method according to claim 1, wherein R<sup>2</sup> represents H.

6. (Original) A method according to claim 1, wherein R<sup>2</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical.

7. (Original) A method according to claim 1, wherein R<sup>3</sup> represents H.

8. (Original) A method according to claim 1, wherein R<sup>3</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical.

9. (Original) A method according to claim 1, wherein R<sup>4</sup> represents H, an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical, an unsubstituted or at least monosubstituted aryl or heteroaryl radical or an unsubstituted or at least monosubstituted aryl or heteroaryl radical which is bonded via a C<sub>1-8</sub>-alkylene group.

10. (Original) A method according to claim 1, wherein R<sup>5</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical or an unsubstituted or at least monosubstituted aryl or heteroaryl radical.

11. (Original) A method according to claim 1, wherein R<sup>6</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical or an unsubstituted or at least monosubstituted aryl radical.

12. (Original) A method according to claim 1, wherein R<sup>7</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical or an unsubstituted or at least monosubstituted aryl radical.

13. (Original) A method according to claim 1, wherein R<sup>8</sup> represents an unsubstituted or at least monosubstituted C<sub>1-8</sub>-alkyl radical or an unsubstituted or at least monosubstituted aryl or heteroaryl radical.

14. (Original) A method according to claim 1, wherein said at least one imidazo[1,2-a]-pyridine compound is selected from the group consisting of  
2-(4-methoxy-phenyl)-7-methyl-imidazo[1,2-a]pyridine,  
2,7-dimethyl-imidazo[1,2-a]pyridine,  
7-methyl-imidazo[1,2-a]pyridine,  
2-tert-butyl-7-methyl-imidazo[1,2-a]pyridine, and  
salts of any of the foregoing with a physiologically acceptable acid.

15. (Original) A method according to claim 14, wherein said at least one imidazo[1,2-a]-pyridine compound is present in the form of a free base.

16. (Canceled)

17. (Currently amended) A method according to claim ~~16~~ 1, wherein said condition is migraine.

18-19. (Canceled)

20. (Currently amended) A method according to claim ~~16~~ 1, wherein said condition is Alzheimer's disease.

21. (Canceled)

22. (Currently amended) A method according to claim ~~16~~ 1, wherein said condition is diabetes.

23-24. (Canceled)